

Attorney's Docket No. 047935/290272

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re: Normark et al.

Confirmation No.: 4970

Appl. No.: 10/531,132

Art Unit: 2661

Filed: April 13, 2005

Examiner: Not assigned

For: SPREAD SPECTRUM SIGNAL PROCESSING

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT  
CITATION UNDER 37 C.F.R. § 1.97**

Sir:

Attached is a list of documents on form PTO-1449 along with a copy of any cited foreign patent documents and non-patent literature documents in accordance with 37 CFR 1.98(a)(2).

It is requested that the Examiner consider these documents and officially make them of record in accordance with the provisions of 37 C.F.R. § 1.97 and Section 609 of the MPEP. By identifying the listed documents, Applicant in no way makes any admission as to the prior art status of the listed documents, but is instead identifying the listed documents for the sake of full disclosure.

Respectfully submitted,



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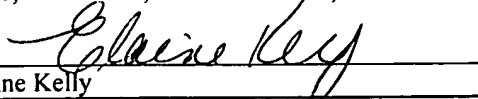
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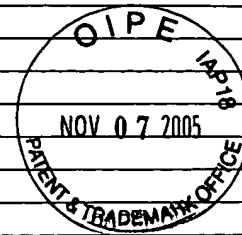
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**CERTIFICATE OF MAILING**

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Elaine Kelly

Substitute for form 1449/PTO (Revised 07/2005)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/531,132
				Filing Date	
				First Named Inventor	Normark et al.
				Group Art Unit	
Examiner Name	To be assigned				
Sheet	1	of	2	Attorney Docket Number	047935/290272



U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear
	1	US-2004/0213334 A1	10-28-2004	Ledvina et al.	
	2	6,407,699 B1	06-18-2002	Yang	

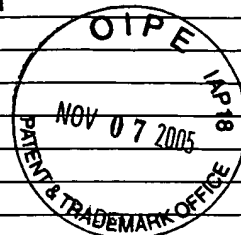
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document Country Code - Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	English Language Translation Attached
	3	WO 02/50561 A2	06-27-2002	The Johns Hopkins University		

OTHER DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	English Language Translation Attached
	4	ASAI T., et al., "TUPM 12.4: Software Solution of GPS Baseband Processing", ULSI Laboratory, Mitsubishi Electric Corporation, IEEE, 1998.	
	5	AKOS, D.M., et al., "Tuning In to GPS - Real-Time Software Radio Architectures for GPS Receivers", GPS World, July 2001, pp. 28-33.	
	6	DOVIS, F., et al., "Design and Test-Bed Implementation of a Reconfigurable Receiver for Navigation Applications", Electronics Department, Politecnico di Torino, Navigation Signal Analysis and Simulation Group, Spring of 2002.	
	7	HANSSON, A., et al., "Global Positioning System in a Digital Signal Processor for the TMS320 DSP Platform", Texas Instrument Application Report, April 2001.	
	8	AKOS, D.M., et al., "Real-Time GPS Software Radio Receiver", ION National Technical Meeting, 22-24 January 2001, Long Beach, CA, pp. 809-816.	
	9	AKOS, D.M., et al., "Global Positioning System Software Receiver (gpSrx) Implementation in Low Cost/Power Programmable Processors", ION GPS 2001, 11-14 September 2001, Salt Lake City, UT, pp. 2851-2858.	

Examiner Signature		Date Considered	
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449/PTO (Revised 07/2005)  <b>INFORMATION DISCLOSURE          STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
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Sheet	2	of	2	Attorney Docket Number	047935/290272



OTHER DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	English Language Translation Attached
	10	VAN DIERENDONCK, A.J., "GPS Receivers", Global Positioning System: Theory and Applications, B. W. Parkinson and J.J. Spilker, Jr., Eds., Vol. I, American Institute of Aeronautics and Astronautics, 1996, Chapter 8, pp. 329-406.	
	11	LEDVINA, et al., "A Coming of Age for GPS: A RTLinux Based GPS Receiver", Proceedings of the Workshop on Real Time Operating Systems and Applications and Second Real Time Linux Workshop (in conjunction with IEEE RTSS 2000), November 27-28, 2000, see <a href="http://gps.ece.cornell.edu/index.html">http://gps.ece.cornell.edu/index.html</a> .	
	12	FONTANA, R.D., et al., "The New L2 Civil Signal", Proceedings of the ION GPS 2001, September 11-14, 2001, Salt Lake City, UT, see <a href="http://www.findarticles.com/cf_dls/mOBPW/9_12/78573899/p8/article.jhtml?term=">http://www.findarticles.com/cf_dls/mOBPW/9_12/78573899/p8/article.jhtml?term=</a> .	
	13	LEDVINA, et al., "A 12-Channel Real-Time GPS L1 Software Receiver", Proceedings of the ION National Technical Meeting, January 22-24, 2003, Anaheim, CA, see <a href="http://gps.ece.cornell.edu/index.html">http://gps.ece.cornell.edu/index.html</a> .	
	14	LEDVINA, et al., "Bit-Wise Parallel Algorithms for Efficient Software Correlation Applied to a GPS Software Receiver", IEEE Transactions on Wireless Communications, Vol. 3, No. 5, September 2004.	
	15	PSIAKI, et al., "Design and Practical Implementation of Multi-Frequency RF Front Ends Using Direct RF Sampling", Preprint from ION GPS/GNSS 2003, pp. 90-102.	
	16	AKOS, D.M., "Design and Implementation of a Direct Digitization GPS Receiver Front End", IEEE Transactions on Microwave Theory and Techniques, Vol. 44, No. 12, December 1996, pp. 2334-2339.	
	17	THOR, JONA, "A High-Performance Real-Time GNSS Software Receiver and its Role in Evaluating Various Commercial Front End ASICs", ION GPS 2002, 24-27 September 2002, pp. 2554-2560.	
	18	FONTANA, et al., "The Modernized L2 Civil Signal – Leaping Forward in the 21 <sup>st</sup> Century", GPS World, September 2001, pp. 28-34, <a href="http://www.gpsworld.com">www.gpsworld.com</a> .	

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